UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,494	07/15/2004	Sharon A. Free	00124-01080-US	4493
	7590 11/04/200 SOVE LODGE & HUT	EXAMINER		
PO BOX 2207		HWU, DAVIS D		
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			11/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/710,494	FREE ET AL.		
Office Action Summary	Examiner	Art Unit		
	Davis D. Hwu	3752		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
 Responsive to communication(s) filed on 20 Fee This action is FINAL. Since this application is in condition for alloware closed in accordance with the practice under Entertain in the condition for alloware closed. 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1,2,4-6 and 13-15 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,4-6 and 13-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate		

Application/Control Number: 10/710,494 Page 2

Art Unit: 3752

DETAILED ACTION

1. After conducting an appeal conference on October 29, 2008, it was decided that this case is to be reopened for prosecution.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4-6, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cope et al. (5,028,355) in view of MacDonald et al.

Cope et al. discloses a method of suppressing an explosion in a fuel tank, comprising: installing into the tank a reticulated polyurethane foam of a certain density, and having a volume of electrical resistivity of less than 10E12 ohm-cm, wherein one or more antistatic agents is added in situ to a foam-forming mixture to prepare the foam, the antistatic agents being a metallic salt of sodium or potassium. Cope et al. do not disclose a density less than 1.0 pounds per cubic feet, however, MacDonald et al. teaches a polyurethane foam which suppresses an explosion in which the foam has a density a density less than 1.0 pounds per cubic foot (column 2, lines 14-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have made the reticulated polyurethane foam of Cope et al. to have a density less than 1.0 pounds per cubic feet as has been taught by MacDonald et al. in forming an explosion suppression foam. Although Cope et al. do not disclose the resisitivity of

Application/Control Number: 10/710,494

Art Unit: 3752

less than 10E12 ohm-cm at 70 degrees F, it would be obvious to one having ordinary skill in the art that the resistivity would be less than 10E12 ohm-cm at 70 degrees F since 70 degrees F is normal atmospheric temperature. The amount foam to be installed in the tank as recited in claim 5 would have been a matter of design choice as would have been the amounts of the agents as recited in claim 14, and the foam can be installed in the fuel tank of an aircraft.

Page 3

- 4. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cope et al. in view of MacDonald et al. as applied to claim 1 above, and further in view of Triolo. Triolo teaches a foam forming process comprising using vacuum conditions from 0.6 to 0.95 bar to obtain a required foam density. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have prepared the reticulated polyurethane foam under controlled vacuum conditions from 0.6 to 0.95 bar to achieve the required foam density.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis D. Hwu whose telephone number is 571-272-4904. The examiner can normally be reached on 8:00-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on 571-272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is

Application/Control Number: 10/710,494 Page 4

Art Unit: 3752

available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Davis D Hwu/ Primary Examiner, Art Unit 3752 /Len Tran/ Supervisory Patent Examiner, Art Unit 3852